

CLAIMS

What is claimed is:

- 1 1. A process for forming a cured fluoroelastomer film comprising the steps of:
2 providing a fluoroelastomer latex;
3 adding an organic peroxide curing agent and coagent to the latex to
4 form a curable coating composition;
5 forming a film with the curable coating composition; and
6 curing the film at elevated temperature.
- 1 2. The process of claim 1, where the organic peroxide curing agent is a dialkyl
2 peroxide, peroxyester, diacyl peroxide, ketone peroxide, peroxydicarbonate,
3 hydroperoxide, peroxyketal, or mixture thereof.
- 1 3. The process of claim 2, where the dialkyl peroxide curing agent is a dicumyl
2 peroxide, 2,5-dimethyl-2,5-di-(*t*-butylperoxy)hexane, *t*-butyl cumyl peroxide, α,α' -
3 bis(*t*-butylperoxy)diisopropylbenzene, di-*t*-butyl peroxide, 2,5-dimethyl-2,5-di-(*t*-
4 butylperoxy)hexyne-3, or a mixture thereof.
- 1 4. The process of claim 2, where the peroxyester curing agent is α -cumyl peroxy-
2 neodecanoate, 1,1-dimethyl-3-hydroxy-butyl peroxyneodecanoate, α -cumyl
3 peroxy-heptanoate, *t*-amyl peroxyneodecanoate, *t*-amyl peroxy-pivalate, *t*-butyl
4 peroxyneodecanoate, *t*-butyl peroxy-pivalate, 1,1-dimethyl-3-hydroxy-butyl peroxy
5 2-ethylhexanoate, 2,5-dimethyl 2,5 di(2-ethylhexanoylperoxy)hexane, *t*-amyl
6 peroxy 2-ethylhexanoate, *t*-butyl peroxy 2-ethylhexanoate, *t*-butyl peroxy
7 isobutyrate, *t*-butyl peroxyacetate, *t*-amyl peroxyacetate, *t*-butyl perbenzoate, *t*-
8 amyl perbenzoate, di-*t*-butyl diperoxyphthalate, oo-*t*-butyl o-isopropyl
9 monoperoxycarbonate, 2,5-dimethyl 2,5-di(benzoylperoxy)hexane, oo-*t*-butyl 1-(2-
10 ethylhexyl)monoperoxycarbonate, oo-*t*-amyl o-(2-ethylhexyl)
11 monoperoxycarbonate, or a mixture thereof.
- 1 5. The process of claim 2, where the diacylperoxide curing agent is
2 diisononanoyl peroxide, decanoyl peroxide, lauroyl peroxide, succinic acid

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- 3 adding an organic peroxide curing agent and coagent to the latex to
- 4 form a curable coating composition;
- 5 forming a film with the curable coating composition; and
- 6 curing the film at elevated temperature.

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